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November 9, 1998



PATENT APPLICATION
DOCKET NO.: GSF97-06A

GMU 1642

6/7.2.
11/18/98

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gerd Sutter, Marion Ohlmann and Volker Erfle
Application No.: 09/002,443 Group Art Unit: 1642
Filed: January 2, 1998 Examiner: Not Assigned
Title: RECOMBINANT MVA VIRUS, AND THE USE THEREOF

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231	
on 11-9-98	Karen DiRocco
Date	Signature
Karen DiRocco	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of the national stage in international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ a \$240.00 fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a Petition under 37 CFR 1.97(d)(2), and
- ☐ a \$130.00 petition fee set forth in 37 CFR 1.17(I).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)
- ☐ Applicant requests that the attached IDS and cited reference(s) _____ be placed in the application filewrapper.
(Filed after payment of issue fee)

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Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- ☒ Copies of the cited references are enclosed.
- ☐ Copies of cited references are enclosed except those entered in prior application, U.S. Serial No. _____, and references that are not required to be submitted under 37 CFR 1.98.
- ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

Concise Explanation Requirement (non-English references):

- ☒ The "concise explanation" requirement for reference(s):
AL, AM, AT, AU and AW under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
- ☐ the explanation provided in the Specification.
- ☐ submission of the enclosed International Search Report.
- ☒ the enclosed English language abstracts. (attached as last page of the reference or within text of the reference)

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ Enclosed is a check in the amount of \$_____.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$_____.
- ☐ A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By

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Lexington, Massachusetts 02421-4799

Dated: November 9, 1998

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.
GSF97-06AAPPLICATION NO.
09/002,443INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

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PATENT & TRADEMARK OFFICE

APPLICANT
Gerd Sutter, et al.FILING DATE
January 2, 1998GROUP
1642

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
MMZ	AA	5,185,146	09-FEB-93	Altenburger, W.	424	89	04-JAN-89
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
MMZ	AL	EPO 324350A1	19-JUL-89	Europe			
MMZ	AM	CH 568 392	31-OCT-75	Switzerland			
	AN						
	AO						
	AP						
	AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MMZ	AR	Sutter, G., et al., "A Recombinant Vector Derived from the Host Range-Restricted and Highly Attenuated MVA Strain of Vaccinia Virus Stimulates Protective Immunity in Mice to Influenza Virus," <i>Vaccine</i> , 12(11):1032-1040 (1994).
MMZ	AS	Hirsch, V.M., et al., "Limited Virus Replication Following SIV Challenge of Macaques Immunized with Attenuated MVA Vaccinia Expressing SIVsm env and gag-pol," <i>Vaccines 95, Cold Spring Harbor Laboratory Press, USA</i> , pgs. 195-200 (1995).
MMZ	AT	Mayr, A., et al., "Abstammung, Eigenschaften und Verwendung des Attenuierten Vaccinia-Stammes MVA," <i>Infection</i> , 3:6-14 (1975).
MMZ	AU	Mayr, A., et al., "The Smallpox Vaccination Strain MVA: Marker, Genetic Structure, Experience Gained with the Parenteral Vaccination and Behavior in Organisms with a Debilitated Defence Mechanism," <i>Zbl. Bakt. Hyg., I Abt. Org. B</i> , 167:375-390 (1978).

EXAMINER

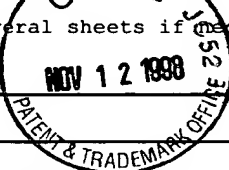
DATE CONSIDERED

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MKZ	AV	Meyer, H., et al., "Mapping of Deletions in the Genome of the Highly Attenuated Vaccinia Virus MVA and their Influence on Virulence," <i>J. Gen. Virol.</i> , 72:1031-1038 (1991).
MKZ	AW	Stickl, H., et al., "MVA-Stufenimpfung Gegen Pocken" <i>Dtsch. Med. Wschr.</i> , 99:2386-2392 (1974).
MKZ	AX	Sutter, G. and Moss, B., "Nonreplicating Vaccinia Vector Efficiently Expresses Recombinant Genes," <i>Proc. Natl. Acad. Sci., USA</i> , 89:10847-10851 (1992).
MKZ	AY	Sutter, G. and Moss, B., "Novel Vaccinia Vector Derived from the Host Range Restricted and Highly Attenuated MVA Strain of Vaccinia Virus," <i>Dev. Biol. Stand. Basel, Karger</i> , 84:195-200 (1995).
MKZ	AZ	Altenburger, W., et al., "Partial Deletion of the Human Host Range Gene in the Attenuated Vaccinia Virus MVA," <i>Arch. Virol.</i> , 105:15-27 (1989).
MKZ	AR2	Hirsch, V.M., et al., "Patterns of Viral Replication Correlate with Outcome in Simian Immunodeficiency Virus (SIV)-Infected Macaques: Effect of Prior Immunization with a Trivalent SIV Vaccine in Modified Vaccinia Virus Ankara," <i>J. Virol.</i> , 70(6):3741-3752 (1996).

EXAMINER

MKZ

DATE CONSIDERED

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